
Meridian 1

Meridian Companion Programming and Provisioning Record

553-3601-250

Issue 05

September 1996

© 1996 Northern Telecom

All rights reserved

Information is subject to change without notice. Northern Telecom reserves the right to make changes in design or components as progress in engineering and manufacturing may warrant. This equipment has been tested and found to comply with the limits for a Class A digital device pursuant to Part 15 of the FCC rules.

Meridian and Companion are trademarks of Northern Telecom.

Printed in the United States of America

Contents

Introduction.....	1
Meridian Companion documentation set	1
System information record	3
Contacts.....	3
Provisioning information record.....	5
Equipment.....	7
Determining the number of remote power interconnect units	7
Equipment requirements for sites using CDS or Companion Manager.....	9
Installation record.....	11
Companion Meridian Controller card.....	11
Companion Meridian radio line card.....	13
System programming record.....	15
Configuration programming	15
Telephony data.....	15
Mobility data.....	16
Administration set data	17
Software codes.....	17
Administration programming.....	19

User options.....	19
Passwords.....	19
Portable user information.....	21

Contents

Introduction.....	1
Meridian Companion documentation set	1
System information record	3
Contacts.....	3
Provisioning information record.....	5
Equipment.....	7
Determining the number of remote power interconnect units	7
Equipment requirements for sites using CDS or Companion Manager.....	9
Installation record.....	11
Companion Meridian Controller card.....	11
Companion Meridian radio line card.....	13
System programming record.....	15
Configuration programming	15
Telephony data.....	15
Mobility data.....	16
Administration set data	17
Software codes.....	17
Administration programming.....	19

Meridian 1

Meridian Companion Programming and Provisioning Record

553-3601-250

Issue 05

September 1996

© 1996 Northern Telecom

All rights reserved

Information is subject to change without notice. Northern Telecom reserves the right to make changes in design or components as progress in engineering and manufacturing may warrant. This equipment has been tested and found to comply with the limits for a Class A digital device pursuant to Part 15 of the FCC rules.

Meridian and Companion are trademarks of Northern Telecom.

Printed in the United States of America

Contents

Introduction.....	1
Meridian Companion documentation set	1
System information record	3
Contacts.....	3
Provisioning information record.....	5
Equipment.....	7
Determining the number of remote power interconnect units	7
Equipment requirements for sites using CDS or Companion Manager.....	9
Installation record.....	11
Companion Meridian Controller card.....	11
Companion Meridian radio line card.....	13
System programming record.....	15
Configuration programming	15
Telephony data.....	15
Mobility data.....	16
Administration set data	17
Software codes.....	17
Administration programming.....	19

User options.....	19
Passwords.....	19
Portable user information.....	21

Contents

Introduction.....	1
Meridian Companion documentation set	1
System information record	3
Contacts.....	3
Provisioning information record.....	5
Equipment.....	7
Determining the number of remote power interconnect units	7
Equipment requirements for sites using CDS or Companion Manager.....	9
Installation record.....	11
Companion Meridian Controller card.....	11
Companion Meridian radio line card.....	13
System programming record.....	15
Configuration programming	15
Telephony data.....	15
Mobility data.....	16
Administration set data	17
Software codes.....	17
Administration programming.....	19

Introduction

The *Meridian Companion Programming and Provisioning Record* contains a system information record, an installation record, and a portable users record.

A copy of this document should be kept at the customer site. Vendors involved in maintaining the Meridian Companion system should also have a copy of this document.

Use a pencil to record information that may vary and make photocopies of the tables as necessary.

Meridian Companion documentation set

For information about deployment, refer to *Meridian Companion Site Planning Reference Manual* and *Guide to Site Planning*.

For information about installing the system, Configuration programming, or Maintenance programming, refer to *Meridian Companion Installation and Maintenance Guide*.

For information about customizing the Meridian Companion system using the Administration Terminal, refer to *Meridian Companion Administration Terminal and Operations Guide*.

For information about installation, operation, administration, and maintenance using Companion Manager, refer to *Companion Manager Installation and Operations Guide*.

For more information about using the Companion Deployment Tool, refer to *Companion Deployment Tool User Guide*.

For information about operating characteristics of a wireless system, refer to *Companion Diagnostic Software (CDS) User Guide*.

User guides and feature reference cards are provided with each portable telephone used with the Meridian Companion system.

For a description of 2500 features, refer to *X11 Features and Services*. For a complete list of prompts and service changes, refer to *X11 Input/Output Guide*.

System information record

Contacts

Client	
Company name	
Address	
Contact name	
Telephone number	
Billing number	
Date received	

Supplier	
Company name	
Address	
Contact name	
Telephone number	
Invoice number	
Shipping date	

Installer	
Name	
Installation date	

Provisioning information record

After completing the following table, add the number of Base Stations and antennas, and enter the totals in Table 2 on page 8. Add the number of Base Stations requiring RPIs and use the total to calculate RPI requirements in Table 1 on page 7.

Note: Use a photocopy of Table 2 to record your information.

Base Station location	Number of Base Stations	Base Station radio numbers	RPI or local power	External antennas locations

Equipment

Determining the number of remote power interconnect units

Use Table 1 to determine how many Base Stations need remote power interconnect (RPI) units. Record the number of RPIs required in Table 2.

Table 1: Minimum RPI units required

Number of Base Stations	Number of RPI-16 and RPI-8 required
1–8	1 RPI-8
9–16	1 RPI-16
17–24	1 RPI-16 and 1 RPI-8
25–32	2 RPI-16
33–40	2 RPI-16 and 1 RPI-8
41–48	3 RPI-16
49–56	3 RPI-16 and 1 RPI-8
57–64	4 RPI-16
65–72	4 RPI-16 and 1 RPI-8
73–80	5 RPI-16
81–88	5 RPI-16 and 1 RPI-8
89–96	6 RPI-16
97–104	6 RPI-16 and 1 RPI-8
105–112	7 RPI-16
113–120	7 RPI-16 and 1 RPI-8
121–128	8 RPI-16

Record the number of units installed in the following table.

Table 2: Equipment requirements

Date of upgrade	Quantity	Equipment
	1	Companion Meridian Controller card with NTCK94 ROM daughter card that contains the software (required for all systems)
		Companion Meridian radio line card
		Companion Meridian line card
		interboard faceplate cable harness (one included with each Companion Meridian radio line card and Companion Meridian line card)
		Controller card bypass faceplate cable harness for systems other than Option 11 and Option 21
		Companion Meridian radio line card maintenance cable
		Companion Meridian line card maintenance cable
		straight RS-232 cable (10 feet, 25 feet)
	1	Administration Terminal, or a RAD and an administration PC
		Base Stations (C1110)
		plug-top power supplies
		RPis (8s or 16s)
		C3050 portable telephones
		outdoor antennas, omnidirectional antennas, mounting brackets, and lightning surge arrestor

Note: Some sites may use the Companion Diagnostic Software (CDS) to evaluate and maintain their radios or Companion Manager to administer their Meridian Companion system.

Equipment requirements for sites using CDS or Companion Manager

Date of upgrade	Quantity	Equipment
		IBM PC-compatible computer (administration PC)
		9600 baud Hayes compatible modem (for remote administration)
		A/B box (for switching between local and remote access to RAD by administration PC)
		null modem cable (10 feet, 25 feet)
		RAD

Installation record

Complete the following tables after installing your Meridian Companion system.

Companion Meridian Controller card

The Companion Meridian Controller card supports up to 15 Base Stations, up to 16 users, and either an Administration Terminal or a RAD for connecting a PC running Companion Manager. If a system uses an Administration Terminal and a RAD, the Companion Meridian Controller card supports up to 14 Base Stations.

Card number: _____

TCM port	TCM wiring		Base Station label	RPI units (number or description)	RPI wiring ¹	
	Distribution block # (Meridian 1)	Distribution block # (Base Station)			Distribution block number for power #1	Distribution block number for power
-00			Admin. Term. or RAD			
-01						
-02						
-03						
-04						
-05						
-06						
-07						
-08						
-09						
-10						
-11						
-12						
-13						
-14						
-15						

1. RPI wiring applies to certain configurations only. Refer to *Meridian Companion Installation and Maintenance Guide* for more information.

Companion Meridian radio line card

Each Companion Meridian radio line card supports up to 16 Base Stations and 16 portable telephones. Use a photocopy to record your information.

Card number: _____

TCM port	TCM wiring		Base Station label	RPI units (number or description)	RPI wiring ¹	
	Distribution block # (Meridian 1)	Distribution block # (Base Station)			Distribution block # for TCM (if used)	Distribution block # for power
-00						
-01						
-02						
-03						
-04						
-05						
-06						
-07						
-08						
-09						
-10						
-11						
-12						
-13						
-14						
-15						

1. RPI wiring applies to certain configurations only. Refer to *Meridian Companion Installation and Maintenance Guide* for more information.

System programming record

Configuration programming

Telephony data

Delay to Dial

Delay to Dial is the time that occurs between the selection of an access line for an outgoing call and the transmission of the telephone number on that line. Each host switch needs a specific time to ensure that dial tone is present before transmitting the telephone number.

Delay to Dial	
---------------	--

B03 gain value

The Meridian Companion system contains digital interconnections that establish various digital signal paths within the system. There are currently five paths. By default, the gain associated with the paths upon installation is zero. Product bulletins or other special circumstances may require the installer to adjust the gain values.

PBX to CPP	
CPP to PBX	
PBX to RAD	
RAD to PBX	
TONE to PBX	

Mobility data

System LID

Record the System Access Logical Identifier (LID) that uniquely identifies the system to the portables it supports. The System LID must have four characters (letters or numbers). When you first power up your system, the default System LID is a randomly generated value between 0500 and FFFE.

Changing the System LID disables all portables. If you change the LID on an existing system that has registered portables, you will invalidate the registration of all the portables on the system. Portables must be reregistered before they can be used with the system, or the System LID must be changed back to its previous value. Only an installer should change the System LID.

System LID				
------------	--	--	--	--

Antenna setting

The available settings are internal or external antenna. The default at system startup is internal. Record the radios that are set to external antenna.

Radio	Radio

Administration set data

Installer password

The Installer password allows access to Configuration, Administration, and Maintenance programming. It should *not* be the same as the default password (0 0 0 0).

Installer password						
--------------------	--	--	--	--	--	--

Software codes

System Security Number

Record the System Security Number (SSN) that uniquely identifies your Meridian Companion system.

System Security Number								
------------------------	--	--	--	--	--	--	--	--

Companion ID

Your Companion ID is required when requesting software codes.

Companion ID	
--------------	--

UTAM Activation and Portable Credit Codes

Contact your system supplier for your UTAM Activation and Portable Credit Codes and record them in the following table. When you request the codes, you need to tell your system supplier the System Security Number (SSN), the number of radio credits you need (two for each Base Station), and the number of portable telephones you want to register on the system. Record any service upgrade provided by the new software codes in the “Code information” column (for example, “added 6 Base Stations”). You will need this information during system recovery.

Date	Code 1	Code 2	Code 3	Code information

Administration programming

User options

Radio loss handling

If a portable user moves out of the coverage area, a radio link may be lost. The system can be optionally programmed to transfer dropped calls to another number. A system-wide default is not required, but if it is used, it should be written below. There is a maximum of 16 digits.

If you do want to use a default number, circle Default and write the telephone number you program to be the system-wide default. If you do not want to use a default number, circle None. If a user wants to use a unique number (an office number, for example) record it in Table 3 under “Radio loss handling”.

Default number	None	Default															
-----------------------	------	---------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Passwords

Administration password

The Administration password allows access to Administration programming. It should *not* be the same as the default password (9 9 9 9).

Administration password						
--------------------------------	--	--	--	--	--	--

Registration password

The Registration password allows portable registration. It should *not* be the same as the default password (7 2 3 4 6).

Registration password						
------------------------------	--	--	--	--	--	--

Portable user information

Use Table 3 to record information about the portables for your system.

Note 1: Use a printout showing the user's class of service features to assist in filling out the CLS column.

Note 2: Use a photocopy of Table 3 to record your information.

Table 3: Portable user information

WTN	User name	Portable directory number	CLS	Meridian Companion CLS		
				Radio loss handling	MCRA/MCRD/not available	CLID/CPND
__00						
__01						
__02						
__03						
__04						
__05						
__06						
__07						
__08						
__09						
__10						
__11						
__12						
__13						
__14						
__15						



Printed on recycled paper.

© 1996 Northern Telecom
All rights reserved

553-3601-250
Issue 05

Printed in the United States of America

NORTEL
NORTHERN TELECOM

User options.....	19
Passwords.....	19
Portable user information.....	21

Introduction

The *Meridian Companion Programming and Provisioning Record* contains a system information record, an installation record, and a portable users record.

A copy of this document should be kept at the customer site. Vendors involved in maintaining the Meridian Companion system should also have a copy of this document.

Use a pencil to record information that may vary and make photocopies of the tables as necessary.

Meridian Companion documentation set

For information about deployment, refer to *Meridian Companion Site Planning Reference Manual* and *Guide to Site Planning*.

For information about installing the system, Configuration programming, or Maintenance programming, refer to *Meridian Companion Installation and Maintenance Guide*.

For information about customizing the Meridian Companion system using the Administration Terminal, refer to *Meridian Companion Administration Terminal and Operations Guide*.

For information about installation, operation, administration, and maintenance using Companion Manager, refer to *Companion Manager Installation and Operations Guide*.

For more information about using the Companion Deployment Tool, refer to *Companion Deployment Tool User Guide*.

For information about operating characteristics of a wireless system, refer to *Companion Diagnostic Software (CDS) User Guide*.

User guides and feature reference cards are provided with each portable telephone used with the Meridian Companion system.

For a description of 2500 features, refer to *X11 Features and Services*. For a complete list of prompts and service changes, refer to *X11 Input/Output Guide*.

System information record

Contacts

Client	
Company name	
Address	
Contact name	
Telephone number	
Billing number	
Date received	

Supplier	
Company name	
Address	
Contact name	
Telephone number	
Invoice number	
Shipping date	

Installer	
Name	
Installation date	

Provisioning information record

After completing the following table, add the number of Base Stations and antennas, and enter the totals in Table 2 on page 8. Add the number of Base Stations requiring RPIs and use the total to calculate RPI requirements in Table 1 on page 7.

Note: Use a photocopy of Table 2 to record your information.

Base Station location	Number of Base Stations	Base Station radio numbers	RPI or local power	External antennas locations

Equipment

Determining the number of remote power interconnect units

Use Table 1 to determine how many Base Stations need remote power interconnect (RPI) units. Record the number of RPIs required in Table 2.

Table 1: Minimum RPI units required

Number of Base Stations	Number of RPI-16 and RPI-8 required
1–8	1 RPI-8
9–16	1 RPI-16
17–24	1 RPI-16 and 1 RPI-8
25–32	2 RPI-16
33–40	2 RPI-16 and 1 RPI-8
41–48	3 RPI-16
49–56	3 RPI-16 and 1 RPI-8
57–64	4 RPI-16
65–72	4 RPI-16 and 1 RPI-8
73–80	5 RPI-16
81–88	5 RPI-16 and 1 RPI-8
89–96	6 RPI-16
97–104	6 RPI-16 and 1 RPI-8
105–112	7 RPI-16
113–120	7 RPI-16 and 1 RPI-8
121–128	8 RPI-16

Record the number of units installed in the following table.

Table 2: Equipment requirements

Date of upgrade	Quantity	Equipment
	1	Companion Meridian Controller card with NTCK94 ROM daughter card that contains the software (required for all systems)
		Companion Meridian radio line card
		Companion Meridian line card
		interboard faceplate cable harness (one included with each Companion Meridian radio line card and Companion Meridian line card)
		Controller card bypass faceplate cable harness for systems other than Option 11 and Option 21
		Companion Meridian radio line card maintenance cable
		Companion Meridian line card maintenance cable
		straight RS-232 cable (10 feet, 25 feet)
	1	Administration Terminal, or a RAD and an administration PC
		Base Stations (C1110)
		plug-top power supplies
		RPis (8s or 16s)
		C3050 portable telephones
		outdoor antennas, omnidirectional antennas, mounting brackets, and lightning surge arrestor

Note: Some sites may use the Companion Diagnostic Software (CDS) to evaluate and maintain their radios or Companion Manager to administer their Meridian Companion system.

Equipment requirements for sites using CDS or Companion Manager

Date of upgrade	Quantity	Equipment
		IBM PC-compatible computer (administration PC)
		9600 baud Hayes compatible modem (for remote administration)
		A/B box (for switching between local and remote access to RAD by administration PC)
		null modem cable (10 feet, 25 feet)
		RAD

Installation record

Complete the following tables after installing your Meridian Companion system.

Companion Meridian Controller card

The Companion Meridian Controller card supports up to 15 Base Stations, up to 16 users, and either an Administration Terminal or a RAD for connecting a PC running Companion Manager. If a system uses an Administration Terminal and a RAD, the Companion Meridian Controller card supports up to 14 Base Stations.

Card number: _____

TCM port	TCM wiring		Base Station label	RPI units (number or description)	RPI wiring ¹	
	Distribution block # (Meridian 1)	Distribution block # (Base Station)			Distribution block number for power #1	Distribution block number for power
-00			Admin. Term. or RAD			
-01						
-02						
-03						
-04						
-05						
-06						
-07						
-08						
-09						
-10						
-11						
-12						
-13						
-14						
-15						

1. RPI wiring applies to certain configurations only. Refer to *Meridian Companion Installation and Maintenance Guide* for more information.

Companion Meridian radio line card

Each Companion Meridian radio line card supports up to 16 Base Stations and 16 portable telephones. Use a photocopy to record your information.

Card number: _____

TCM port	TCM wiring		Base Station label	RPI units (number or description)	RPI wiring ¹	
	Distribution block # (Meridian 1)	Distribution block # (Base Station)			Distribution block # for TCM (if used)	Distribution block # for power
-00						
-01						
-02						
-03						
-04						
-05						
-06						
-07						
-08						
-09						
-10						
-11						
-12						
-13						
-14						
-15						

1. RPI wiring applies to certain configurations only. Refer to *Meridian Companion Installation and Maintenance Guide* for more information.

System programming record

Configuration programming

Telephony data

Delay to Dial

Delay to Dial is the time that occurs between the selection of an access line for an outgoing call and the transmission of the telephone number on that line. Each host switch needs a specific time to ensure that dial tone is present before transmitting the telephone number.

Delay to Dial	
---------------	--

B03 gain value

The Meridian Companion system contains digital interconnections that establish various digital signal paths within the system. There are currently five paths. By default, the gain associated with the paths upon installation is zero. Product bulletins or other special circumstances may require the installer to adjust the gain values.

PBX to CPP	
CPP to PBX	
PBX to RAD	
RAD to PBX	
TONE to PBX	

Mobility data

System LID

Record the System Access Logical Identifier (LID) that uniquely identifies the system to the portables it supports. The System LID must have four characters (letters or numbers). When you first power up your system, the default System LID is a randomly generated value between 0500 and FFFE.

Changing the System LID disables all portables. If you change the LID on an existing system that has registered portables, you will invalidate the registration of all the portables on the system. Portables must be reregistered before they can be used with the system, or the System LID must be changed back to its previous value. Only an installer should change the System LID.

System LID				
------------	--	--	--	--

Antenna setting

The available settings are internal or external antenna. The default at system startup is internal. Record the radios that are set to external antenna.

Radio	Radio

Administration set data

Installer password

The Installer password allows access to Configuration, Administration, and Maintenance programming. It should *not* be the same as the default password (0 0 0 0).

Installer password						
--------------------	--	--	--	--	--	--

Software codes

System Security Number

Record the System Security Number (SSN) that uniquely identifies your Meridian Companion system.

System Security Number								
------------------------	--	--	--	--	--	--	--	--

Companion ID

Your Companion ID is required when requesting software codes.

Companion ID	
--------------	--

UTAM Activation and Portable Credit Codes

Contact your system supplier for your UTAM Activation and Portable Credit Codes and record them in the following table. When you request the codes, you need to tell your system supplier the System Security Number (SSN), the number of radio credits you need (two for each Base Station), and the number of portable telephones you want to register on the system. Record any service upgrade provided by the new software codes in the “Code information” column (for example, “added 6 Base Stations”). You will need this information during system recovery.

Date	Code 1	Code 2	Code 3	Code information

Administration programming

User options

Radio loss handling

If a portable user moves out of the coverage area, a radio link may be lost. The system can be optionally programmed to transfer dropped calls to another number. A system-wide default is not required, but if it is used, it should be written below. There is a maximum of 16 digits.

If you do want to use a default number, circle Default and write the telephone number you program to be the system-wide default. If you do not want to use a default number, circle None. If a user wants to use a unique number (an office number, for example) record it in Table 3 under “Radio loss handling”.

Default number	None	Default															
-----------------------	------	---------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Passwords

Administration password

The Administration password allows access to Administration programming. It should *not* be the same as the default password (9 9 9 9).

Administration password						
--------------------------------	--	--	--	--	--	--

Registration password

The Registration password allows portable registration. It should *not* be the same as the default password (7 2 3 4 6).

Registration password						
------------------------------	--	--	--	--	--	--

Portable user information

Use Table 3 to record information about the portables for your system.

Note 1: Use a printout showing the user's class of service features to assist in filling out the CLS column.

Note 2: Use a photocopy of Table 3 to record your information.

Table 3: Portable user information

WTN	User name	Portable directory number	CLS	Meridian Companion CLS		
				Radio loss handling	MCRA/MCRD/not available	CLID/CPND
__00						
__01						
__02						
__03						
__04						
__05						
__06						
__07						
__08						
__09						
__10						
__11						
__12						
__13						
__14						
__15						



Printed on recycled paper.

© 1996 Northern Telecom
All rights reserved

553-3601-250
Issue 05

Printed in the United States of America

NORTEL
NORTHERN TELECOM